

## ABSTRACT

### Hectometric wave emission antenna

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To avoid searching for a new location for very high hectometric wave antennas, an antenna according to the invention comprises an existing vertical structure having a height of at least approximately ten meters and including at least one electrically conductive element connected to the ground, and an excitation conductor wire (4a) that is essentially electrically conductive, disposed at least in part in the vicinity of and outside the structure and connected to a emitter (E) so that the structure radiates substantially hectometric waves. The existing structure may be a broadcasting tower, a water tower, a chimney, a lighthouse or a lamp standard, wherein the excitation wire merges visually. The wire can be replaced by a conductive loop a few meters long, magnetically coupled to the structure.